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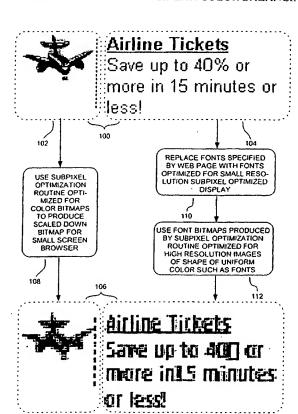
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(54) Title: METHODS, SYSTEMS, AND PROGRAMMING FOR PRODUCING AND DISPLAYING SUBPIXEL-OPTIMIZED FONT BITMAPS USING NON-LINEAR COLOR BALANCING

US

US



(57) Abstract: A method of producing a sub pixel resolution representation of a shape suitable for display on a sub-pixel addressed screen. The method comprises producing a scaled sub pixel optimized image of a bitmap image by associating a luminosity value with each sub pixel of the scaled image as a function of the percent of the area of the sub pixel's area in the image that is covered by the shape and a color balancing function designed to distribute a portion of a sub pixel's luminosity value that otherwise would cause color imbalance to nearby sub pixels of different colors. The percent of a subpixel's luminosity values that is so distributed is a function of the percent of the sub pixel's luminosity value, which causes color imbalance. An advantage is that it reduces the amount of luminosity value distributed for color balance purposes to approximately only that amount which is necessary to achieve color balance, and increases the clarity of sub pixel optimized images.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G09G 5/00,5/38,5/06 US CL : 345/613						
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B. FIELDS SEARCHED						
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched. The raster tragedy at low resolution, Beat Stamm, Presentation at the training session						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) IEEE						
C. DOC	C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	Relevant to claim No.				
Х	US 6,339,426 B1 (LUI et al) 15 January 2002 (15.01.2002), column 4, lines 15-24; column 17, lines 1-7; column 10, see fig. 7; column 11, lines 10-27; Fig. 1; Fig. 2; Fig. 9; Fig. 6; column 3, lines 59-67; column 17, lines 15-55; column 3, line 40-58; column 15, lines 5-15; column 4, lines 15-24.					
х	The raster tragedy at low resolution, Beat Stamm, 2 Page 2, Fig. 2.	7,13-14,22,39,40				
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Further	documents are listed in the continuation of Box C.	See patent family annex.				
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"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone				
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